23977 H/008/61/014/006/003/003 B122/B227

Buckling measurement by ...

assumptions hitherto made. However, if the exchanged "basic" core zone is not too extensive, interactions between the reflector and the zone to be measured may be neglected, or instead of the reflector, a properly chosen reflector saving may be reckoned with. Under these assumptions and after simplifications, the author recommends the following formula for the radial component of buckling: $\delta \mu_{\mathbf{r}} = \frac{1}{\alpha} b \mu_{\mathbf{r}}$, where α is the coefficient found in the one-group equation. Field of application of the "replacement" method: The method has been found successful for heavy water-moderated systems. For graphite moderator, the exponential experiment is much less dangerous. The author does not know of its application to light-water systems. In the case of different moderators or if gas channels of various dimensions are in the fuel elements, the difference of diffusion coefficients must not be neglected. In such a case, the above formula is inapplicable, and even trial-and-error methods become intricate. There are 2 figures and 5 references: 2 Soviet-bloc. The reference to the English-language publication reads as follows: S. Glasstone and M. C. Edlund: Fundamentals of the theory of nuclear reactors, Manuscript, Budapest, 1958. 13, 14, 2. Abstracter's note: Card 3/4

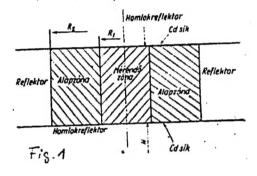
23977 H/008/61/014/006/003/003 B122/B227

Buckling measurement by ...

Probably a translation into Hungarian

ASSOCIATION: Központi Fizikai Kutató Intézet, Budapest (Central Physical Research Institute, Budapest)

Legend to Fig. 1: Alapzóna = basic zone; sík = plane; mérendő zóna = zone to be measured; Homlokreflektor = face reflector.



Card 4/4

VIGASSY, Jozsef

Radiation conditions of the VVRSz reactor. Energia es atom 15 no.10/11: 506-512 O-N '62.

1. Kozponti Fizikai Kutato Intezet Reaktorfizikai es Technikai Laboratoriumanak tudomanyos munkatarsa.

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720003-6

VIGASSY, Jozsef, okleveles gepeszmernok

Scrutinizing the processes occurring in nuclear reactors. Ipari energia 1 no.5-6:139-141 N-D '60.

SZEPHALMI, Geza; TURI, Laszlo; VIGASSY, Jozsef

Neutron temperature measurements in the ZR-2 system. Energia es atom 17 no.3:146-152 Mr 164.

1. Central Research Institute of Physics, Hungarian Academy of Sciences, Budapest (for Turi, Vigassy). 2. Institute of Biophysics, Pecs Medical University, Pecs (for Szephalmi).

VIGASSY, Jozsef, okleveles gepeszmernok

Measuring bucklings by the method of changing fuel. Energia es atom 14 no.6:283-287 Je '61.

1. Kozponti Fizikai Kutato Intezet.

ACCESSION NR: AP4023745

H/0008/64/000/003/0146/0152

AUTHOR: Szephalmi, Geza; Turi, Laszlo; Vigassy, Tozsef

TITLE: Neutron temperature measurements in the ZR-2 system

SOURCE: Energia es atomtechnika, no. 3, 1964, 146-152

TOPIC TAGS: neutron temperature measurement, ZR-2 system, thermal spectrum measurement, EK-10 fuel element, quadrangular lattice, VVR-S reactor, burnout, Uranium-water lattice, lattice moderator

ABSTRACT: The chief characteristics of the neutron spectrum of reactors and the chief methods of spectrum measurement are described. Authors describe their own measurement procedures, give neutron temperature measurements made with the ZR-2 zero reactor of the Central Research Institute and compare their results with similar measurements. So far as they know, no such measurements have hitherto been made in triangular-geometric aqueous lattices built of EK-10 fuel elements, but several have been made in various VVR-S type reactors, the core of which is a quadrangular lattice having 17.5 mm lattice divisions and built of EK-10 fuel elements. Since the $\sum_{k=1}^{\infty} \sum_{k=1}^{\infty} \sum_{k=1}$

Card 1/2

ACCESSION NR: AP4023745

spectra and the influence of the lattice geometry is slight, they compared their own measurements in a 19-mm division triangular lattice (corresponding on the basis of that parameter to the lattice of VVR-S reactors). The values show considerable divergences, probably because of differences in measuring methods, since WR-S type reactors with approximately the same burnout and spectrum are involved. In heterogeneous reactors, the thermal neutron spectrum can change greatly within so-called "unit cells". Mostovoy (Atomnaya Energiya, 13/6, 1962) made measurements relating to this in natural uranium-water lattices, on the basis of which it could be expected that this effect is also considerable in lattices formed of EK-10 fuel elements. "We thank all those who have made the publication of this article possible for their cordial cellaboration, especially our scientific associates Barta Tamas, Frankl Laszlo and Konezos Geza, who were of assistance to us in the measurements." Orig. art. has: I figure, 2 tables and 29 equations.

ASSOCIATION: MTA Kosponti Fizikai Kutatointezet, Budapest (Central Physical Research Institute) Hungarian Academy of Sciences)

SUBMITTED: CO

DATE ACQ: 15Apr64

ENCL: 00

SUB CODE: NS

NO REF SOV: OCL

OTHER: 016

Card 2/2

。 我是有是他们都被否仍把这点

VERTES, Peter; M. KOVACS, Lasslo; SZEGHO, Laszlo; VIGASSY, Jozsef

Testing abosorption and fission conditions of heterogeneous uranium—water systems in the epithermal neutron energy range. Koz fiz kozl MTA 12 no.4:263-285 164.

1. Central Research Institute of Physics, Hungarian Academy of Sciences, Budapest.

VIGASSY, Jozsef

Some investigations in conjunction with the gird distortion effects of the VVR-S reactor zone on the reactivity of the system. Koz.fiz kozl MNA 10 no.3:171-188 '62.

H/008/62/000/010/002/003 D286/D303

AUTHOR: Vigassy, József, Dipl. Mechanical Engineer

Radiation conditions in the VVRS reactor

TITLE: Radiation Contacton Contacton

The article is based on a lecture given by the author at the Fizikai Társulat (Physical Society, Budapest) on April 26, 1962. After tabulating the radiations encountered, neutron, and partly β radiations are considered. The origin of radiations is discussed, and the reactions producing neutrons, and different γ rays in the reactor are tabulated. The spectra of the γ radiation resulting from the fission of U235, and from that of Al are intimed at a radiations of the γ radiations in the reactor are the spectrum conditions of the γ radiations in the reactor are discussed. Some particulars of the reactors examined are given discussed. Some particulars of the reactors examined are given the URSR, VVRS, VVRI). The measured γ spectra of reactors IRT, BSR and VVRS are given. The IRT spectrum is obtained from Groshev's and VVRS are given. The IRT spectrum is obtained the reactor, the

Card 1/2

Radiation conditions

H/008/62/000/010/002/003 D286/D308

distribution of the) radiations within the zone are also mentioned. Finally the neutron flux in the VVRS reactor is considered with the aid of a graph and calculations, both obtained from Nikolayev's report presented in Bucarest. The author acknowledges the help of Zoltan Gyimesi, Scientific Associate. There are 10 figures and 5

ASSOCIATION:

Központi Fizikai Kutató Intézet Reaktorfiz. és Techn. Laboratórium (Central Physical Research Institute, Reactor Physical and Techn. Laboratory)

Card 2/2

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720003-6

VIGDERGAUZ, E. A.

36413 Znacheniye wmutrikozhnoy proby dlya ranney diagnostiki dizenteril u detey.

Voprcay pediatrii I okhrany materinstva I petstva, 1740, Vyr. 5, S. 22-33, Bibliogr:

7 Nazv

S0: Letopis' Zhurnal'nykh Statey, No. 47, 1749

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720003-6

AISINA, V.; VIGDERGAUZ, I.; GLICHENKO, V.

Miners and lodging houses. Sov.shakht. 10 no.5:34-35 Ky '61. (MIRA 14:9)

APPROVED FOR REPEASE: 09/01/2001 CIA-RDP86-00513R001859720003-6"

The Palace of Culture after inspection. Sov.shakht. 10 no.1?:36 D '61. (MIRA 14:12) (Bonets Basin -- Workingmen's clubs)

BRYKIN, L., mashinist pod"yema; DEMIN, B., krepil'shchik; FERSHIN, V, slesar'; YAS:KO, Ya., gornyy master; VIGD.RGAUZ, I.; KRYIOVSIAYA. !

New living quarters, old mistakes. Sov.shakht. 10 nc.4:34-35 (MIRA 14:9)

1. Redaktor shakhtnoy guzety "Slava Rodine" (for Vigdergauz).
2. Korrespondent zhurnala "Sovetskiy shakhter" (for Krylovskaya). (Housing)

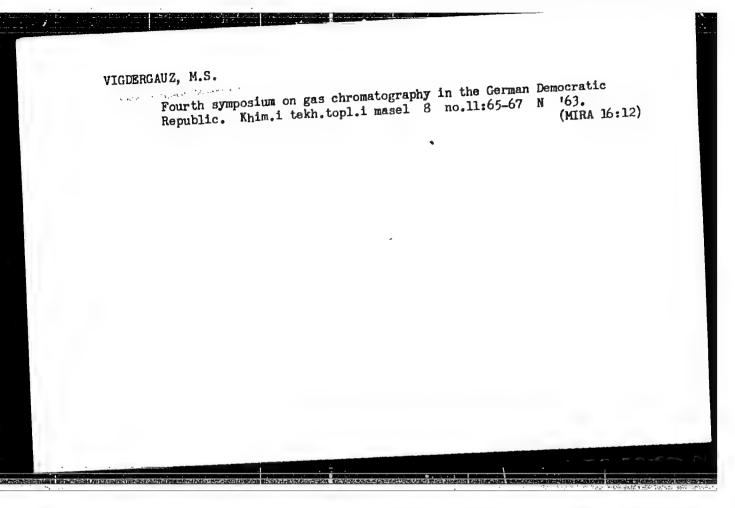
KLIMOVITSKIY, E.D., insh.; VIGDERGAUZ, M.I., inzh.; MALOVA, R.M., inzh.

Heat control instrument panels made of glass-reinforced plastic.
Sudostroenie 29 no.3:52 Mr '63. (MIRA 16:4)

(Ships-Equipment and supplies)

(Glass reinforced plastics)

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720003-6



VIGDERGAUZ, M.S.

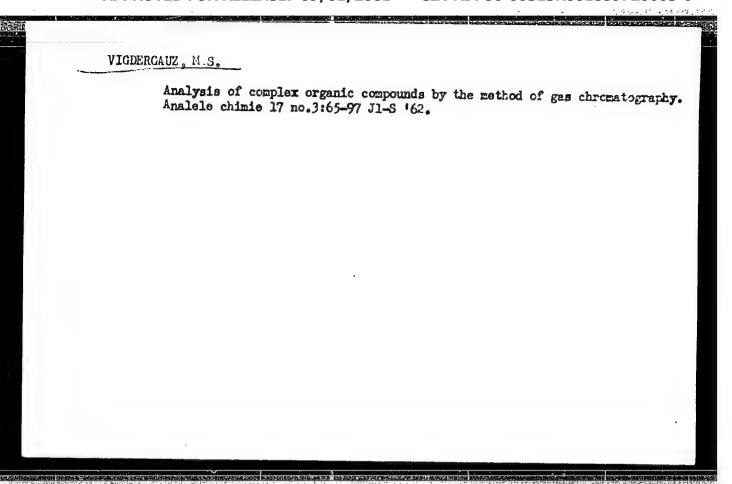
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Analysis of complex organic mixtures by the method of gas chromatography. Usp.khim. 31 no.1:73-100 Ja '62. (MIRA 15:3)

1. Nauchno-issledovatel skiy institut sinteticheskikh spirtov i organicheskikh produktov Novokuybyshevskiy filial. (Gas chromatography) (Organic compounds)

CIA-RDP86-00513R001859720003-6" APPROVED FOR RELEASE: 09/01/2001

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720003-6



5/204/62/002/006/002/018 E075/E192

Vigdergauz, M.S., and Gol'bert, K.A. (deceased)

. Rapid chromatographic analysis of hydrocarbon gases AUTHORS:

PROTODICAL: Neftekhimiya, v.2, no.6, 1962, 825-830 TATLE

Reverse and semi-reverse elution were considered as & mong of separating rapidly complex mixtures by gos-chromategraphy. The time of separation t with the use of reverse elution method

15 given as:

where: $V_{R(m)}$ is the retention volume of component are space velocities of carrier liquid during forward and reves m and n are components to be separated. The semi-reverse flow

method proposed by Svoboda can give rapid separations if it is desired to determine only the components which are quickly eluted.

Card 1/3

5/204/02/002/006/002/018 E075/E192

Papid chromatographic analysis of ...

The optimum time τ and the position along the column length ! for the introduction of carrier gas are determined from the equations:

 $L_1/L = \overline{V}_{\alpha} / (\overline{V}_{\alpha} + \overline{V}_{\alpha}), \qquad (15)$

 $\tau = \left(V_{R(m+1)}/\overline{V_{\alpha}}\right) (L_1/L)$

(15)

Rapid chromatographic analysis of ... 5/204/62/002/006/002/012

column. There are 4 figures.

ASSOCIATION: Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov

Novokuybyshevskiy filial

(Scientific Research Institute of Synthetic Alcohols and Organic Products, Novokuybyshev Branch)

SUBMITTED: July 17, 1962

Card 3/3

5/204/62/002/006/006/012 E075/E192

Vigdergauz, M.S., and Gol'bert, K.A. (deceased)

AUTHORS 1 . Choice of optimum conditions for the chromatographic separation of complex organic mixtures on multiple TITLE

columns

PERIODICAL: Neftekhimiya, v.2, no.6, 1962, 852-860

The work was carried out because of insufficient information in literature on the choice of sorbents and the TEXT: optimization of chromatographic separation processes. retention volume V_{R} of a component on a multiple column is given byi

 $v_{R} = v_{R_{1}} \frac{P_{01}}{P_{0}} + v_{R_{2}}$ (5)

 $v_{R_{1,2}}$ - retention volumes of the component in sections 1 and 2 of the column; P_0 - pressure at the exit from the column; P_{01} - pressure at the boundary between column sections. For small where: pressure gradients the specific retention volume V_g is given by:

Card 1/3

Choice of optimum conditions for ... \$\frac{5}{204}/62/002/006/006/012 \\ \text{E075/E192}\$

$$v_g = \frac{g_1}{g} v_{g_1} + \frac{g_2}{g} v_{g_2}$$
 (8)

where g_1 and g_2 - weights of the liquid in the first and second sections, respectively. A graphical method of determining the optimum relations between the quantities of individual sortents is based on Eq.(8). The optimum separation on multiple columns after changing the sequence of the sections can be achieved only by adjusting the column lengths. The half-width of peaks $\mu_{0.5}$ eluted

into the atmosphere is given by:

$$\mu_{0.5}^2 = \mu_{0.5(1)}^2 + \mu_{0.5(2)}^2 \tag{25}$$

the peak width being independent of the order of the sections. The number of theoretical plates n of a multiple column is

$$n = n_1 + n_2 . (29)$$

The optimum ratio between the quantities of sorbents in the . sections corresponds to the elution of components having equal Card 2/3

Choice of optimum conditions for ... 5/234/62/002/006/006/012 E'75/E192

separation criteria, if the diffusional characteristics of both surbents are similar. The maximum allowable width of fractions entering the second separation stage can be obtained from:

 $v_{R(2)}^{0_1} - v_{R(2)}^{P_2} - \left(\omega_{0.5}^{0_1} + \omega_{0.5}^{P_2}\right)$ $V_{R(1)} - V_{I}$ R(1) (30)

- retention volumes of paraffins and olefins and $\omega_{0.5}^0$ - the corresponding half widths of respectively; their peaks. The most efficient scheme to enrich the microcomponents is to attain a greater ratio of the concentration of the micro-component (impurity) C2 to the concentration of the main component C1, in relation to the initial concentration of the There is 1 figure.

ASSOCIATION: Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov

Novokuybyshevskiy filial Card 3/3

(Scientific Research Institute of Synthetic Alcohols

and Organic Products, Novokuybyshev Branch)

SUBMITTED: July 9, 1962

VIGDERGAUZ, M.S.; GOL'BERT, K.A.

Selecting conditions for the separation of complex mixtures of hydrocarbons by gas chromatography. Neftekhimiia 1 no.5:706-715 S-0 '61. (MIRA 15:2)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov, Novokuybyshevskiy filial.

(Hydrocarbons) (Gas chromatography)

VIGDERGAUZ, M.S.; GOL'BERT, K.A.; GORSHUNOV, O.L.

Analysis of light hydrocarbons by means of molecular sieves. Khim. i tekh.topl.i masel 6 no.7:62-63 Jl '61.

(MIRA 14:6)

1. Novokuybyshevskiy filial NIISS. (Hydrocarbons)

VIGDERGAUZ, M.S.; GOL'BERT, K.L.

Analysis of light hydrocarbon gases by gas-liquid chromatography. Khim. i tekh. topl. i masel 6 no.11:67-69 N '61. (MIRAL4:12)

l. Novokuybyshevskiy filial Nauchno-issledovatel'skogo instituta sinteticheskogo spirta. (Gas chromatography) (Hydrocarbons--Analysis)

s/032/62/028/002/001/037 B101/B110

ATTHORS:

Vigdergauz, M. S., Gol'bert, K. A., Savina, I. M., Afanas'yev, M. I.,

Zimin, R. A., and Bakhareva, N. I.

TITLE:

Chromatographic analysis of microimpurities consisting of acetylene and diene compounds in complex hydrocarbon mixtures

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 2, 1962, 149 - 150

TEXT: A report is given on a method of chromatographic determination of acetylene, propane diene, methyl acetylene, divinyl, and ethyl acetylene, for the purpose of controlling the purification process of pyrogas or the propane-propylene fraction. The analysis was conducted with an experimental model of the XTW-2 (KhTP-2) chromatograph which was provided with a detector for heat of combustion. Air served as carrier gas. Among the known sorbents, none was found which permitted the determination of the peaks of the dienes and alkynes to be ascertained. A system consisting of two 3 m long columns, diameter 4 mm, was, therefore, chosen. The first column was filled with Inza brick powder (0.25 - 0.50 mm) soaked with 25% dissobutyl phthalate. This column permitted the separation of hydrogen Card 1/3

S/032/62/028/002/001/037 B101/B110

Chromatographic analysis of ...

+ methane; ethane + ethylene; acetylene, propane, propylene, isobutane, propadiene, n-butane, isobutene + 1-butene + methyl acetylene; 2-butene, divinyl + ethyl acetylene. The second column was filled with brick powder soaked with 30% Sulfolane. It permitted the separation of methyl acetylene, divinyl, and ethyl acetylene. Operation is conducted first with column 1, and after passage of the propadiene peak, the columns are connected in series until the butane peak has passed. After this, the following substances are eluted from column 1 directly into the detector: 2-butene, divinyl, and ethyl acetylene. Subsequently, column 2 is reconnected, and separate elution of isobutene + 1-butene, and methyl acetylene takes place. To prevent burning through of the detector, the circuit must be switched off during elution of H2, C2H6, C2H4, and C3H6. When determining the content of divinyl and ethyl acetylene, the columns are connected in series after the peak methyl acetylene + isobutene + 1-butene. The accuracy of the analysis is 10-3%. The mean deviation with pyrogas is: 2% for acetylene; 6% for methyl acetylene; 13% for propadiene; 3% for divinyl; with the ethane-ethylene fraction: 3% for acetylene; 23% for propadiene. The apparatus was calibrated by means of synthetic mixtures. There are 1 figure and 1 table. Card 2/3

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720003-6

Chromatographic analysis of ...

S/032/62/028/002/001/037 B101/B110

ASSOCIATION: Novokuybyshevskiy filial instituta sinteticheskikh spirtov i organicheskikh produktov (Novokuybyshevsk Branch of the Institute of Synthetic Alcohols and Organic Products)

Card 3/3

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720003-6

VIGDERGAUZ, M.S., GOL'BERT, K.A. [deceased]

Programmed temperature gas chromatography (survey). Zav. lab. 29 no.9:1029-1035 '63.

(MIRA 17:1)

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720003-6

V: G MRGAUM, M.S.; Arum MEV M. M.

Gas chromatography on peritonal orlumns. Nertexbirila 4 nc.l: 119-127 Ja-F'64 (E.R. 17:6)

1. Nauchno-isoledevateliskiy institut sinteticheskikh spirter i organicheskikh produktor, Novokaybyshevskiy filial.

VISDERGAUZ, M.S.; ANDREYEV, L.V.

Method for the racid chromatographic analysis of hydrocarbons and their derivatives. Khim. 1 tekh. topl. i masel 9 no.4:64-66 Ap 164. (MIRA 17:8)

1. Novokuybyshevskiy filial Nauchno-issledovatol skogo instituta sinteticheskikh spirtov i organicheskikh produktov.

ANDREYEV, L.V.: UTKINA, T.A.: VIODERGAUZ, M.S.

Calculation of correction factors for peak areas in gas chromatography. Zhur.fiz.khim. 39 no.10:2425-2429 0 165.
(MERA 18:12)

1. Nauchno-issledovateliskiy institut sinteticheskikh spirtov i organicheskikh produktov. Submitted June 19, 1964.

ANDREYEV, L.V.; AFANAS'YEV, M.I.; CHABROVA, O.G.; VIGDERGAUZ, M.S.

Quantitative interpretation of gas chromatograms. Usp. khim. 34 no.5:920-948 My '65. (MIRA 18:7)

l. Novokuybyshevskiy filial Nauchno-issledovatel'skogo instituta sinteticheskikh spirtcv i organicheskikh produktov.

CHABROVA, O.G.; AFANAS'YEV, M.I.; VIGDERGAUZ, M.S.

Analysis of heavy pyrolytic resin from petroleum hydrocarbons by gas chromatography. Uzb.khim.zhur. 9 no.1:13-17 165.

(MIRA 18:6)

1. Novokuỹbyshavskiy filial Nauchno-issledovatel skogo instituta sinteticheskikh spirtov i organicheskikh produktov i Institut khimii AN Uzbekskoy SSR.

VIGDERGAUZ, M.S.; CHABROVA, O.G.

Analysis of impurities in X-methylstyrene by gas chromatography. Zhur. prikl. khim. 38 no.7:1549-1556 Jl '65. (MIRA 18:7)

1. Novokuybyshevskiy filial nauchno-issledovatel'skogo instituta sinteti-cheskikh spirtov i organicheskikh produktov.

VIGDERGAUZ, M.S.; CHABROVA, O.G.

Chromatographic determination of the aromatic isomers in the production products of p-xylene. Neftekhimiia 5 no.1:160-165 Ja-F '65. (MIRA 18:5)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov, Novokuybyshevskiy filial.

VIGDERGAUZ, M.S.; GOL'EERT, K.A. [deceased]; AFANAS'YEV, M.I.

New stationary phases for gas chromatography. Khim. i tekh. topl.
i masel 9 no.12:61-63 D '64. (MIRA 18:2)

1. Kuybyshevskiy filial Nauchno-issledovatel'skogo instituta
sinteticheskikh spirtov i organicheskikh produktov.

VIGDERGAUZ, M.S.; ANDREYEV, L.V.

Gas-chromatography on columns of small diameter. Nefteknimia 4 no.3:507-509 My-Je 164. (MIRA 18:2)

l. Nauchno-issledovatel skiy institut sinteticheskikh spirtov i organicheskikh produktov, Novokuybyshevskiy filial.

VIGDERGAUZ, M.S.; AFANASTYEV, M.I.

Determination of microimpurities of propadiene and methylacetylene is a curified propane-propylene fraction by gas coromatography. Zhur. anal.khim. 19 no.9:1122-1127 64. (MIRA 17:10)

1. Novokuybyshevsk Branch of Scientific-Research Institute of Synthetic Alcohols and Organic Products.

VIGDERGAUZ, N.J.; GOLIBERT, K.A. [deceased]

Selecting the optimal conditions for the chromatographic separation of complex organic mixtures in composite towers. Neftekhimia 2 nc. 6:852-360 N-D 162. (1914 17:10)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov, Novokuybyshevskiy filial.

VIGDERGAUZ, M.S.; GOL'BERT, K. . . dedeased]

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Homenel: ture in gas chro: atography. Neftekhimiia 2 no.6:940-951 N-D *62. (MIRA 17:10)

1. Nauchno-issledovatel skiy institut sinteticheskikh spirtov i organicheskikh produktov, Novokuybyshevskiy filial.

VIGDERGAUZ, M.S.; AFANAS YEV, M.I.

Chromatographic Separations of Substances in columns operating with peak load sample. Neftekhimiia 3 no.6:911-915 N-D '63. (MIRA 17:3)

1. Nauchno-issledovatel skiy institut sinteticheskikh spirtov i organicheskikh produktov, Novokuybyshevskiy filial.

VIGDERGAUZ, M.S.; AFANAS'YEV, M.I.

Chromatographic analysis of C₉ - C₁₂ hydrocarbons of pyrolysis resin. Khim. i tekh. topl. i masel 8 no.12:28-35 D '63. (MIRA 17:1)

1. Novokuybyshevskiy filial Nauchno-issledovatel'skogo instituta sinteticheskikh spirtov i organicheskikh produktov.

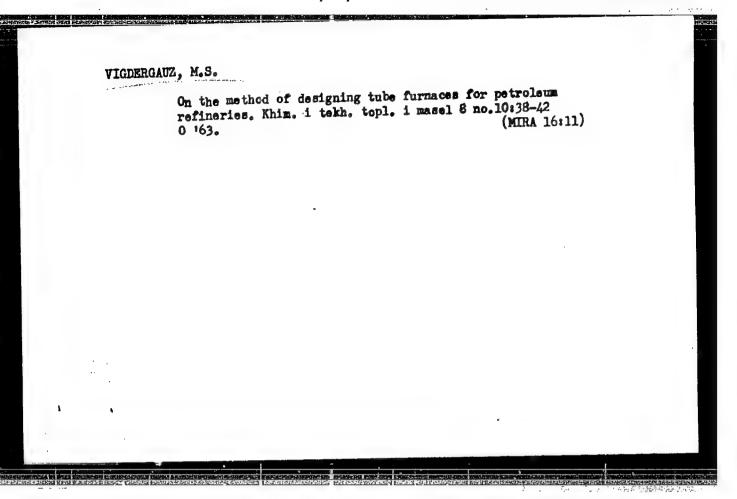
VIGDERGAUZ, M.S.; AFANAS'YEV, M.I.; GOL'BERT, K.A. [decembed]

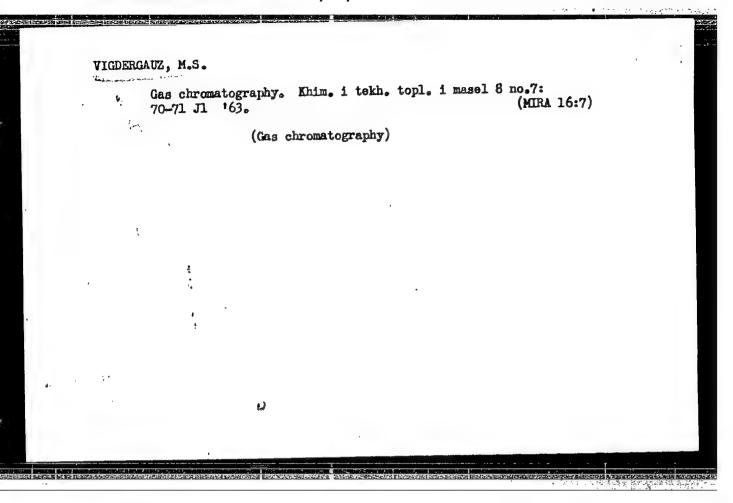
Analysis of microimpurities by gas chromatography. Usp. khim. 32 no.6:754-771 Je '63. (MIRA 16:8)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov, Novokuybyshevskiy filial.

(Chemistry, Analytical)

(Gas chromatography)





VIGDERGAUZ, M.S.; AFANAS'YEV, M.I.

Analysis of isometric octenes by gas chromatography. Heftechimiia 3 no.3:425-429 My-Je 163. (MIRA 16:9)

l. Nauchno-issledovatel skiy institut sinteticheskikh spirtov i organicheskikh produktov, Novokuybyshevskiy filial.

(Octens) (Gas chromatography)

VIGDERGAUZ, M.S.

Elementary microanalysis with the help of gas chromatography.

Priroda 51 no.12:90-91 D '62. (MIRA 15:12)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov, Novokuybyshevsk.

(Gas chromatography) (Microchemistry)

VIGDERGAUZ, M.S.; GOL'BERT, K.A.

Analysis of pyrolysis gas by gas chromatography. Trudy Lom.anal.kvim.
13:257-263 '63. (MI.A 16:5)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov, Novokuybyshevskiy filial.
(Gas chromatography)

	JICDERC-AM BEREZKIN, V.G., POLAK	L.S., VIODEROAN	Z, M.S., GOL'BERT, K.A	•	G	
	Determination of micro Report presented at the compounds, devoted to	mediatures in ol ne 12th Conference monomers, Baku,	lefins by gas chromato; on high molecular-wei 3-7 April 62	graphy. Lght	: \$ 1	
الريمياء مستهيمها أرامها مسانية المهاهمالهم				: •	Taken (Care Care Care Care Care Care Care Care	
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VIGDERGAUZ, M.S.; GOL'BERT, K.A.; ZIMIN, R.A.; GORSHUNGV, O.L.

Gas chromatographic analysis of the products of isobutane oxidation. Neftekhimiia 2 no.3:410-414 My-Je '62.

(MIRA 15:8)

1. Nauchno-issledovatel skiy institut sinteticheskikh spirtov i organicheskikh produktov, Novokuybyshevskiy filial.

(Propane) (Gas chromatography)

VIGDERGAUZ, M.S.; GOL'BERT, K.A.; AFANAS 'YEV, M.I.; MASHUKOVA, G.A.;

ZIMIN, R.A.

Analysis of liquid products of pyrolysis and cracking by gas chromatography. Neftekhimiia 2 no.3:405-409 My-Je '62.

(MIRA 15:8)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov, Novokuybyshevakiy filial.

(Petroleum products) (Gas chromatography)

VIGDERGAUZ, M.S.; GOL'BERT, K.A.; AFANAS'YEV, M.I.; MASHUKOVA, G.A.

Analysis of straight-run gasoline by gas chromatography.

Neftekhimia 2 no.1:3-8 Ja-F '62. (MIRA 15:5)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov, Novokuybyshevskiy filial.

(Gasoline) (Gas chromatography)

110-58-5-23/25

- AUTHORS: Afanas'yev, V.V., Uspenskiy, Yu.M., Vigdergauz, R.V., Zil'bershteyn, B.A., Engineers; Lur'ye, V.M., Candidate of Technical Sciences
- TITLE: Concerning the Article "The Principles of Construction of a New Series of Current-transformers for Voltages up to 10 kV" (Pc povodu stat'i "O printsipakh postroyeniya novykh seriy transformatorov toka na napryazheniye do 10 kv") (and Authors' Reply)
- PERIODICAL: Vestnik Elektropromyshlennosti, 1958, Vol 29, Nr 5, pp 71-77 (USSR).
- ABSTRACT: This is a discussion by two separate contributors on an article by Engineer B.A. Zil'bershteyn (Gosplan RSFSR) and Candidate of Technical Sciences V.M. Eur'ye (NII EP), published in Vestnik Elektropromyshlennosti, 1956, Nr 10. The authors' reply is also given.

 Contribution by Afanas'yer, Engineer

This contributor considers that the author has made a serious error in not recognizing that the one-second thermal stability that he quotes is based on a guaranteed current that is limited by short-circuit stress considerations. Accordingly, his Figure 2 is misconceived. His considerations should have been based on a current below the limiting value and of longer duration.

Contribution by Uspenskiy, Yu.M., Engineer and Vigdergauz, R.V., Engineer Card 1/3

Concerning the Article "The Principles of Construction of a New Series of Current-transformers for Voltages up to 10 kV"

These authors welcome certain features of the article, particularly those in which new constructions are described. However, they consider that the authors have formulated the question of class of accuracy and load incorrectly. They consider that the authors' fears about an unsuitable current transformer causing damage to measuring instruments during short-circuit conditions are less important than they think. They consider that the authors are not providing sufficiently high overload capacity and do not agree that different current transformers are needed for measurement and protection. The article is also thought to present the question of current-transformer stability during short-circuit incorrectly and to confuse the matter of low- and high-valtage current transformers.

Authors' Reply
The reply is spirited. The authors show that in his own book, Afanas'yev supported their method, which he is now criticising. They hold to their views. They consider that since the article itself was directed against the excessive demands that designers sometimes make on current-transformers, it is not surprising

Card 2/3

Concerning the Article "The Principles of Construction of a New Series of Current-transformers for Voltages up to 10 kV"

that the article should have been attacked by two members of a large design organisation. The authors defend their position firmly on all the points under discussion.

ASSOCIATION: Zavod "Elektroapparat", Lengiden, Gosplan RSFSR,

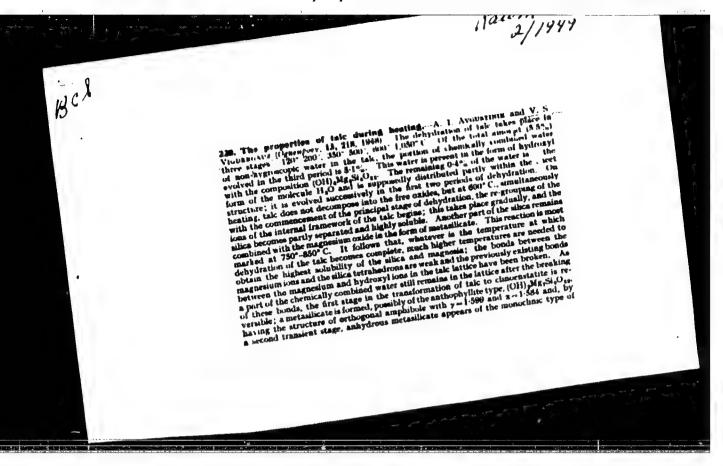
Card 3/3

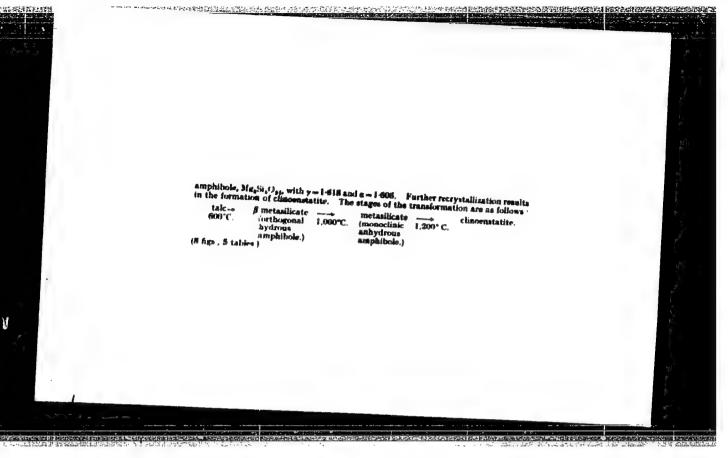
AFANAS'YEV, V.V., inzh.; USPENSKIY, Yu.M., inzh.; VIODERGAUZ, R.V., inzh.

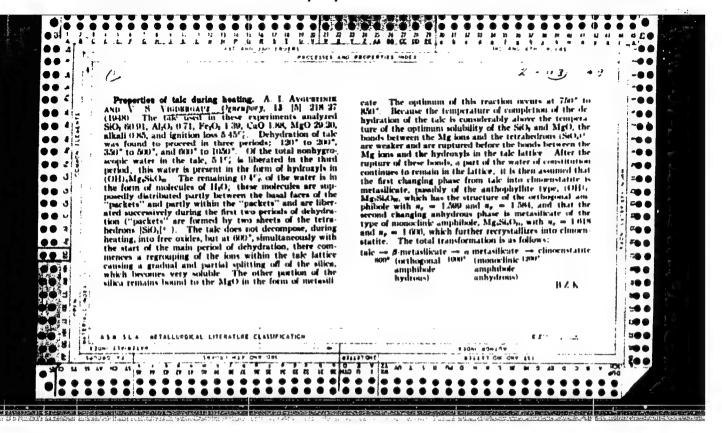
Comments on the article "Principles for building new series of current transformers of a voltage up to 10 ky." Yest. elektroprom. 29 no. 5:71-74 My 158. (MIRA 11:7)

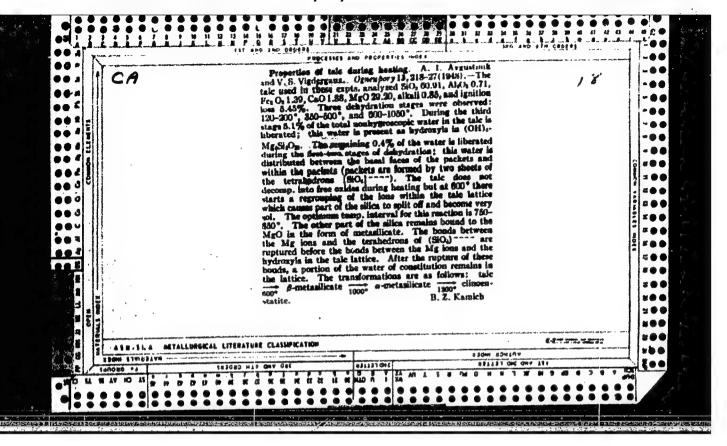
1. Zavod *Elektreapparat* (for Afanas'yev). 2. Lengidep (for Uspenskiy, Vigdergauz).

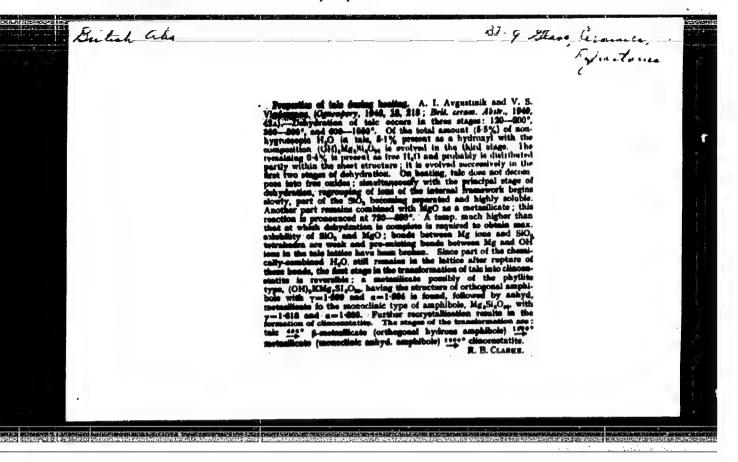
(Electric transformers)

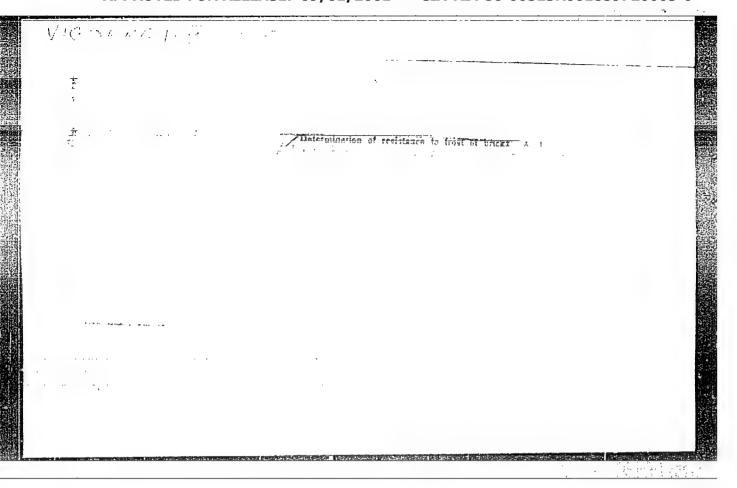












AVGUSTINIK, A. I., VICEDERGAUZ, V. S.

Effect of the composition and amount of glass phase on the sintering and frost-resisting properties of ceramic building materials.

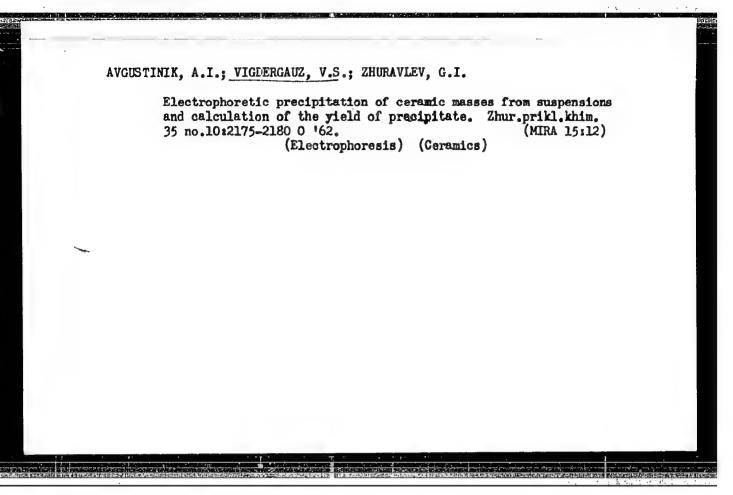
Trudy LTI no.57:77-87 159. (MIRA 13:8)

(Ceramic materials)

VIGDERGAUZ, V.S.

Factors responsible for the decline of the frost-resistance properties of bricks made of clays from the Neva Region. Trudy LTI no.57:88-96 159.

(Bricks)



S/080/62/035/010/011/012 D204/D307

AUTHORS:

Avgustinit, A.I., Vigdergauz, V.S. and Zhuravlev, G.I.

TITLE:

The effect of electrolyte additions on the electrophoretic deposition of ceramic masses from suspen-

sions

PERIODICAL:

Zhurnal prikladnoy khimii, v. 35, no. 10, 1962,

2338-2341

The present work is a continuation of an earlier study (MhPkh, 35, 10, 2175 (1962)), devoted to the electrophoretic deposition of ceramic coatings from suspensions. The importance of the electrokinetic potential of the particles on the process of deposition is underlined. It is concluded that this quantity is in turn controlled by the formation of ionic double layers, by selective adsorption of similarly charged ions on the solid phase, i.e. by the addition of electrolytes. The effects were studied of Th(NO₃)₄·8N₂O, HCl, HNO₃, H₂SO₄ and Al(NO₃)₃·9N₂O, on suspensions of MgO, Al₂O₃ - SiO₂ - CaO glass, NbC, and magnesium mica-phlogopite, Card 1/2

The effect of electrolyte ...

S/080/62/035/010/011/012 D204/D307

the suspensions consisting of 2g of the solid particles in 30 cm³ of 96% EtoH. It was found that in general the yields of the deposits (0 to 4 x 10-5 g/cm²) increased sharply to a maximum and gradually fell away as increasing amounts of electrolytes were added (0 - 160 x 10-5 moles). All experiments were carried out with an applied voltage of 12 v and a deposition time of 5 sec. No deposition was achieved with 112504, or in the absence of electrolytes. The yield maxima correspond to the complete formation of ionic double layers (maximum electrokinetic potentials), which then contract, owing to the effect of oppositely charged ions, when further electrolyte is added, (lowering of the electrokinetic potential). Suitable electrolytes are those in which one ion (e.g. Th⁴⁺, Al⁵⁺, H⁺) exhibits specific adsorption, and the other possesses a low charge and is not too large (Cl⁻, NO₃). There are 5 figures.

SUBMITTED:

April 15, 1962

Card 2/2

S/080/62/035/010/005/012 D204/D307

AUTHORS:

Avgustinik, ...I., Vigdergauz, V.S. and Zhuravlev, G.I.

T111.E:

Electrophoretic deposition of ceramics from their suspensions and the calculation of the yields of the

deposits

FERIODIC.L:

Zhurnal prikladnoy khimii, v. 35, no. 10, 1962,

2175-2180

The mechanisms of the formation of electrical double layers are summarized, for the case of a finely dispersed solid hase suspended in a liquid, focusing the interest on the mechanism in which ions are adsorbed on the solid particles, since this is of the greatest importance for the purpose of electrophoretic deposition. The effects of electrolyte additions are discussed. The present authors studied the deposition of refractory coatings on metals, to determine whether the electrophoretic method is effective, in a glass vessel containing as electrodes a Ni cylinder 19 mm in diameter and 70 mm long, and a coaxially placed 0.5 mm Cu wire, 60 - 70 mm

Card 1/3

\$/080/62/035/010/005/012 D204/D307

Electrophoretic deposition ...

The deposition took place on the Gu wire, the yields being determined by weighing. The suspensions were prepared from 5 - 6 µ and smaller particles ultrasonically dispersed in 96% EtOH, and 1% 1101 was used as the electrolyte. The yields were found to increase almost linearly with the time of deposition (at a voltage of 11 v) and with applied voltage (for 4 scc periods of deposition), the times of deposition being controlled by a relay. The yields (weights) of the deposit are shown to be given by (8)

Y = usect! 31n F1 7

where 5 is the electrokinetic potential, & the dielectric constant of the medium, C the particle concentration, t the time of deposition, r_1 and r_2 the radii of the inner and outer electrodes of length 1, and η is the viscosity of the medium. \int Abstracter's note: u is not defined but probably a misprint for U, the applied voltage 7. The experimental yields were generally higher than those calculated by the formula, for the following conditions: (1) U = 11 v, Card 2/3

Electrophoretic deposition ...

S/080/62/035/010/005/012 D204/D307

t varying from ~ 5 to 100 seconds, and (2) t = 4 sec, U varying from $\sim 2 - 14$ v. The discrepancies ($\sim 15\%$) are discussed. The process is considered an effective one for the deposition of high quality ceramic coatings. There are 3 figures.

SUBMITTED:

April 3, 1962

Card 3/3

AVGUSTINIK, A.I.; VIGDERGAUZ, V.S.; ZHURAVLEV, G.I.; KHAMOVA, V.I.

Simultaneous precipitation of several components for obtaining ceramic coatings by electrophoresis. Zhur. prikl. khim. 36 no.8:1646-1650 Ag '63. (MIRA 16:11)

AVGUSTINIK, A.I.; VIGDERGAUZ, V.S.; ZHURAVLEV, G.I.

Effect of the dispersity of the solid phase on its electrophoretic precipitation from suspensions. Zhur. prikl. khim. 36 no.8:1650-1654 Ag '63. (MIRA 16:11)

AVGUSTINIK, A.I.; VICDERGAUZ, V.S.; ZHURAVLEV, G.I.

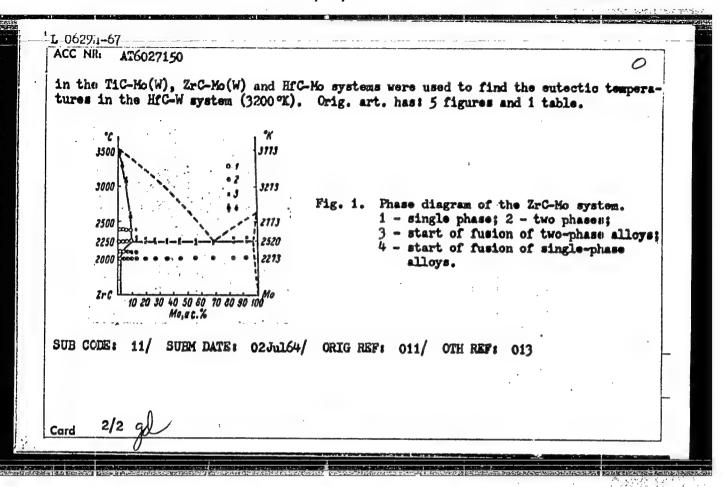
Electrophoresis as a method of depositing ceramic coatings.
Zhur. prikl. khim. 36 no.11:2539-2540 N '63.

(MIRA 17:1)

"APPROVED FOR RELEASE: 09/01/2001

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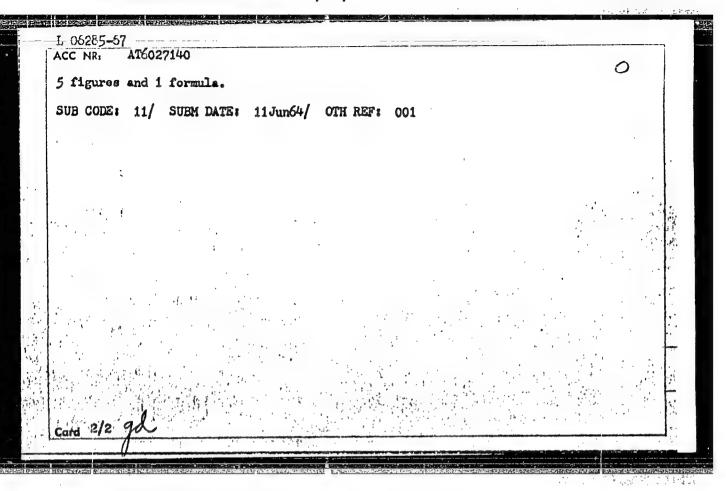
AT/WH/JD/WW/JG/GD EWT(m)/EWP(e)/EWP(t)/ETI LJP(c) T. 06291:-67 SOURCE CODE: UR/0000/65/000/000/0220/0228 ACC NE: AT6027150 (A) AUTHOR: Ordan'yan, S. S.; Avgustinik, A. I.; Vigdergauz, V. S. ORG: none TITIE: Phase diagram of ZrC-Me SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Issledovaniya v oblasti khimii silikatov i okislov (Studies in the field of chemistry of silicates and oxides). Moscow, Izd-vo Nauka, 1965, 220-228 TOPIC TAGS: zirconium carbide, molybdenum, alloy phase diagram ABSTRACT: On the basis of x-ray diffraction, metallographic and chemical analyses and measurements of temperatures of the start of fusion in the Zr-C-Mo system, a phase diagram of the quasi-binary section ZrC-Mo was plotted (see Fig. 1). It was found that the solubility of Mo increases with rising temperature; it amounts to 1.2, 3.1 and 9.9 at. % at 2273, 2373 and 2520 % respectively. The solubility of ZrC in No is slight (0.2 at. % at 2273 °K). The composition of the eutectic in the ZrC-Mo system is close to Zro.189Moo.811Co.189 (80 wt. % Mo). On the basis of the literature and their own data, the authors suggest that the MeIVC-MeVI (TIC-Mo, TIC-W, ZrC-Mo, ZrC-W) sections in the corresponding ternary systems are quasi-binary and that the phase diagrams of these sections are of eutectic type. The acceptor capacity criterion 1/Nn of group IV metals forming isostructural carbides and data on the eutectic temperatures



L 06290-67 HTT(E)/ENP(e)/ENP(v) HH/mH/CD ACC NR: AT6027146 SOURCE CODE: UR/0000/65/000/000/0189/0192 AUTHOR: Avgustinik, A. I.; Zhuravlev, G. I.; Vigdergauz, V. S. ORG: none TITLE: Interaction of certain glasses with copper at elevated temperatures SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Issledovaniya v oblasti khimii silikatov i okislov (Studies in the field of chemistry of silicates and exides). Moscow, Izd-vo Nauka, 1965, 189-192 TOPIC TAGS: silicate glass, borate glass, protective coating, copper, cuprous oxide ABSTRACT: The processes occurring during firing of vitreous coatings of the CaO-Al203-SiO2-B2O3 system on copper were studied. Coatings about 0.2 mm thick were deposited on plates 30 x 30 x 0.8 mm by electrophoresis and fired at 1020-1220 % for 1.5, 2.5, 3.5 and 4.5 min. Cupric oxide was introduced into the coatings in the amount of 0-0.8%. Chemical analysis showed that a certain amount of copper migrates into the coatings from the copper substrate during firing. The copper thus dissolved in the coating is present in the form of cuprous oxide aggregates which are colloidal in size. The presence of Cu2+ ions in the coatings increases the oxidation rate of copper under the coatings during firing and the adhesion of the coatings to copper. The increase in adhesive strength is apparently due to the formation of chemical bonds between Card 1/2

hese ions and t	he surface ato	ms of coppe	r via oxygen	. Orig. art	. HEE I+	,
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I IJP(c) WH/WW/JD/GD SOURCE CODE: UR/0000/65/000/000/0110/0112 EWT(m)/EWP(e)/EWP(v)/EWP(t)/ETI AT6027140 L 06285-67 ACC NR Avgustinik, A. I.; Zhuravlev, G. I.; Vigdergauz, V. S. AUTHOR: ORG: none TITLE: Effect of copper oxides on the electric conductivity of certain glasses SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Issledovaniya v oblasti khimii silikatov i okislov (Studies in the field of chemistry of silicates and oxides). Moscow, Izd-vo Nauka, 1965, 110-112 TOPIC TAGS: copper compound, glass property, silicate glass, borate glass, electric conductivity ABSTRACT: The effect of copper oxide on the electric conductivity of glasses of the system CaO-AloG-SiO2-BoO3 band on coatings of these glasses on copper plates was studied. The glasses contained 0.5, 1.0, 1.5, 2.0, 3.0, 5.0 and 8.0% CuO. The coatings were fixed at 1220 pt and 1.50 pt and 1 ings were fired at 1220 °K in a nitrogen atmosphere for 1.5, 2.5, 3.5 and 4.5 min. In both cases, the electric conductivity was found to decrease exponentially up to 870 °K. The activation energy of the initial glasses and coatings made from them is the same. The conductivity depends on the valence state of copper in the glass, not on the amount of copper. Reflection spectra in the visible taken on the initial glasses and coatings showed that an increase in conductivity occurs in cases where colloidal aggregates of cuprous oxide (or metallic copper) are formed in them. Orig. art. has: 1/2 Card



AVOUSTINIK, A.J., VIGGERGAUZ, V.C.; KALUNINA, N.G.; CRESHITTO, A.C.

Reaction of borna mitrida with concentum. Chur.prikl.Palm.
38 no.3x665-557 Mr '65.

1. Submitted Febr. 28, 1963.

EWP(k)/EWI(m)/T/EWP(e)/EWF(v)/EWP(t)/ETI L 10005-66 IJF(c) WH/WW/JD UR/0080/66/039/002/0455/0457 ACC NR: AP8008276 SOURCE CODE: AUTHOR: Avgustinik, A. I.; Zhuravlev, G. I.; Vigdergauz, V. S. ORG: none TITLE: Effect of copper oxides on the adhesion of some glasses to copper SOURCE: Zhurnal prikladnov khimii, v. 39, no. 2, 1966, 455-457 TOPIC TAGS: adhesion, glass coating, cuprous oxide, wire, copper ABSTRACT: The strength of adhesion of glass coatings to copper wire was investigated. The authors used glass consisting of Ca0-Al₂O₃-SiO₂-B₂O₃ to which 0.5, 1.0, 1.5, 2.0, 3.0, 5.0 and 8% copper oxide was added and calcinated at 1200°C for 10, 20, 30 and 50 sec. At a certain radius of the bend on the exterior part of glass coating/2 cracks appeared in the form of a half ring, the planes of which were perpendicular to the axis of the wire. If edges of crack zones are uniform and plumb to the surface of the wire, this indicates that the destruction resulted from scaling; if the crack zone is funnel shaped, this means that the destruction is due to the elastic stresses resulting from coating. It was noticed that at a certain copper oxide content in glass, the cohesive force reaches a maximum, then drops. Both brief as well as extended calcination decreased the cohesive force of coating. An equation is given for determining cohesive force. Orig. art. has: 3 figures, 3 formulas. SUBM DATE: 11Jun64/ ORIG REF: 003 SUB CODE: 07.11/ UDC: 666.113 nel Card

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859720003-6

AUTHOR: Avgustinik, A. I.; Vigdergauz, V. S.; Gandel'sman, I. L.; Gorfunkel", L. V.; Gropyanov, V. M.; Drozdetskaya, G. V.

69

ORG: none

17 27

150

TITIE: Use of a cormet made of tungsten and aluminum exide in the proparation of cathodic heaters of electron tubes

SOURCE: AN SSSR. Otdoloniye obshchoy i tokhnicheskoy khimii. Issledovaniya v oblasti khimii silikatov i okislov (Studios in the field of chemistry of silicates and exides). Moscow, Izd-vo Nauka, 1965, 257-264

TOFIC TAGS: high temperature cormet material, tungsten, aluminum exide

ABSTRACT: The aims of the study included (1) the selection of W-Al2O3 cermet compositions suitable for the preparation of cathodic heaters, (2) a study of their physical properties (resistivity as a function of temperature, emissivity, strength, porosity, etc.) as functions of the composition and processing. The influence of the regularity of distribution of the metal (tungsten) and oxide (α -Al2O3) particles and degree of dispersion of the starting materials on the proporties of the sintered cermets was determined. The sintering was found to worsen with rising tungsten contents the shrinkage and relative density decrease, and the perosity increases. The mechanical and elastic properties are determined by the perosity. The optimum combination of

Card 1/2

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and 1 form	THE DISCUSSION OF	f its preparat	ion are made	o. Ori	g. art. h	as: 5 f1	gures,	5 tables
SUB CODE:	11/ SUBM D	ATE: 08F6b65/	ORIG REF:	005/	OTH REF:	002		
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IJP(c)....JD/JG/GD/AT/JAJ/WH SOURCE CODE: UR/0000/65/000/000/0250/0256 AT6027153 ACC NRI AUTHOR: Avgustinik, A. I.; Gropyanov, V. M.; Drozdetskaya, G. V.; Vigdergauz, ORG: none TITLE: Kinotics of formation and decomposition of solid solutions in refractory carbide systems SCURCE: AN SSSR. Otdoloniyo obshchey i tokhnichoskoy khimii. Isslodovaniya v oblasti khimii silikatov i okislov (Studies in the field of chemistry of silicates and exides). Moscow, Izd-vo Nauka, 1965, 250-256 TOPIC TAGS: solid solution,decomposition, zirconium carbido, niobium compound, zirconium compound ABSTRACT: The formation of solid solutions in ZrC-NbC and TiC-NbC systems was studied as a function of temperature and duration of the synthesis process. The products were analyzed by x-ray, motallographic and chemical mothods. In both systems, the matrix of the solid solution is NbC, whose lattice can increase in volume without breaking its chemical bonds. As the holding time increases, a gradual decomposition of the solid solutions takes place. Concentration-time curves for solid solutions at various synthosis temporatures showed that the formation of solid solutions is faster and their decomposition slower the higher has been the synthesis temperature. The data obtained permit one to calculate the time required for the maximum solubility of TiC Card 1/2

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the ZrC-N	oC syst	toms leads t	to the conc	lusion that	a two	-phase reg	solid solut ion exists i figures and	n their
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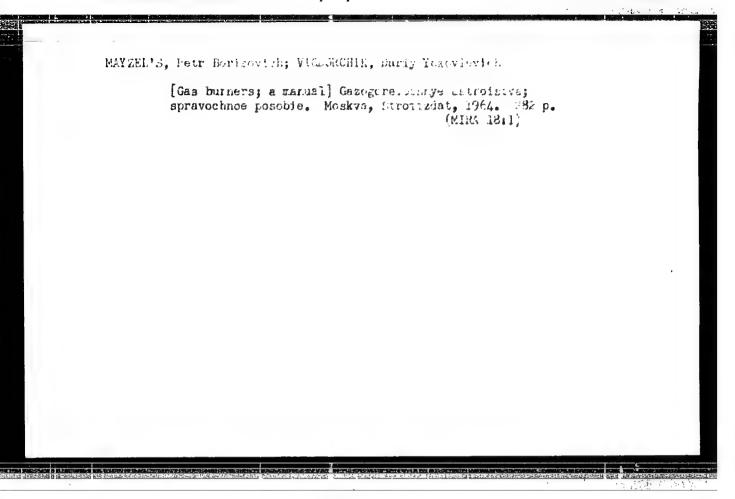
L 06553-67 EWT(m)/EWP(t)/ETI WW/JD/JG ACC NR: AP6008266 SOURCE CODE: UR/0080/66/039/002/0312/0317 AUTHOR: Ordan'yan, S. S.; Avgustinik, A. I.; Vigdergauz, V. Sh. ORG: none TITLE: The composition of alloys of the Zr-C-Nb system SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 2, 1966, 312-317 TOPIC TAGS: fusible alloy, alloy composition, phase composition ABSTRACT: Compositions of the fused alloys of the Zr-C-Nb system were determined permitting the construction of a triangular composition diagram at 2273°K. Because most phases have nonstoichiometric amounts of the elements, the precise intersections of the phases remain obscure. A ZrC-Nb composition-temperature diagram is hypothesized indicating the solubility of Nb in ZrC from 2000-3773°K. On the basis of the experiments, it is concluded that a ZrC-Nb alloy may be used as a heat-resistant construction material Orig. art. has: 4 figures, 2 tables. SUB CODE: 07/ SUBM DATE: 17Mar65/ ORIG REF: 005/ OTH REF: 007 UDC: 546.3-19'831'26'882 Card 1/1 m 26

PELEYEV, Aleksandr Ivanovich; ROBER, David Aronovich; ERAZHNIKOV, Aleksandr Mikhaylovich; VIGDORCHIK, D.Ya., retsenzent; IZATULOV, R.A., retsenzent; TSIPERSON, A.L., red.

[Gas-using equipment of meat industry enterprises] Gazo-ispol'zuiushchee oborudovanie predpriiatii miasnoi promyshlennosti. Moskva, Pishchevaia promyshlennosti, 1965. 155 p. (MIRA 18:10)

VIGDORCHIK, D. Ya.; MAYEVSKIY, M.A.

Standardization of the design of gas burners. Gaz. prom. 10 no.0:26-27 165. (MIRA 18:9)



VIGDORCHIK, D.Ya.; LAUBIS, G.D.

Planning the establishment of a standard design for welded steel cylinders for liquefied gases at $r_u \leq 1570 \cdot 10^5 \text{ n/m}$. Gaz. prom. 9 no.1:32-35 '64.

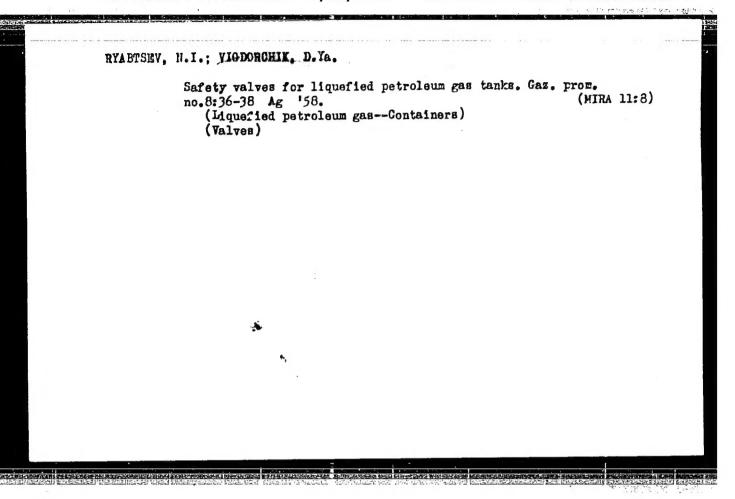
(MIRA 17:12)

VIGDORCHIK, D. Ya. Consultation. Gaz. prom. 8 no.6144 !63. (MIRA 17:8) 1. Sotrudnik instituta Mosgazproyekt.

VIGDORCHIK, D. Ya., inzh.

Safety shut-off devices for gas installations. Bezop.truda v
prom. 5 no.7:19-21 J1 '61. (MIRA 14:6)

(Gas governors)



VIGDORCHIK, D.Ya.; MAYEVSKIY, M.A.

Regulating stations. Gaz.prom. 6 no.2:23-28 '61. (MIRA 14:4)

(Gas distribution)

VIGDORCHIK, D. Ya.; MAYEVSKIY, M.A.; SIDYAKINA, V.A., otv.za vyp.; MANVELOVA, Ye.S., tekhn.red.

[Cas-burner systems in the bakery and confectionery industries]
Gazogorelochnye ustroistva v khlebopekarnoi i konditerskoi promyshlennosti. Moskva, 1962. 29 p. (MIRA 16:3)

1. Moscow. TSentral'nyy institut nauchno-tekhnicheskoy informatsii pishchevoy promyshlennosti.

(Bakers and bakeries--Equipment and supplies)

(Confectionery---Equipment and supplies)

